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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,012	03/26/2004	James C. Houghton	040150	7758
26285 7590 04/01/2008 KIRKPATRICK & LOCKHART PRESTON GATES ELLIS LLP 535 SMITHFIELD STREET PITTSBURGH, PA 15222				
EXAMINER				
MILLER, ALAN S				
ART UNIT		PAPER NUMBER		
4137				
MAIL DATE		DELIVERY MODE		
04/01/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/810,012

Applicant(s)

HOUGHTON ET AL.

Examiner

ALAN MILLER

Art Unit

4137

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/55/02)
Paper No(s)/Mail Date 3/26/2004
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____

DETAILED ACTION

1. This action is in reply to the application filed on 03/26/2004

Claims 1 – 23 are currently pending and have been examined.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 1 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 1 is directed merely to an algorithm and does not apply the result to produce a useful, concrete and tangible result (*AT & T*, 172 F.3d at 1358-59, 50 USPQ2d at 1452 ; MPEP § 2107; *Fisher*, 421 F.3d at 1372, 76 USPQ2d at 1230).

Claims 2 – 10 are rejected under 35 U.S.C. 101 as they are dependent off of claim 1.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims **1-23** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

5. Claim **1** recites the limitation "the trading cycle" in line 12. There is insufficient antecedent basis for this limitation in the claim. Examiner interprets this to mean any time period during which transactions can be made and recorded.

Claim **5** recites the limitation "the trading fund" in line 2. There is insufficient antecedent basis for this limitation in the claim. Examiner interprets this to mean the tracking account associated with the investment fund.

Claim **18** discloses a system, but only recites method steps.

Claims **2-4**, **6-17** and **19-23** are also rejected as each depends from either claim 1, 5 or 18.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims **1 – 23** are rejected under 35 U.S.C. 103(a) as being unpatentable over Boes (U.S. Patent 5,193,056).

8. In respect to claims **1** and **21**, Boes discloses determining the allocation percentage (e.g. allocation ratio) that each investor group (e.g. fund) has in the trading account (e.g. portfolio), (column 4, lines 44 – 61; column 3, lines 62 – 68 through column 4, lines 1 – 8) over a trading cycle (e.g. fiscal year) (column 3, lines 62 – 67; column 4, lines 59 - 61).

Boes discloses a partnership (column 1, lines 46- 50) and establishing said partnership with each fund as an investor (column 1, lines 61 – 65). Boes does not explicitly disclose establishing a contractual arrangement. However, contracts are old and well known. Therefore, it would have been obvious to implement the Hub and Spoke partnership when forming the partnership portfolio (column 1, line 61 - 65) using a contract to inform each party of their obligations and compensation, since the partnership portfolio may legally be a trust (column 2, lines 3 and 4).

9. In respect to claim **2**, these are just aspects of or clauses in the contractual agreement. Further, a contract represents at best printed matter, or non-functional descriptive material. Therefore, what is found in a contract will not differentiate a claim from the prior art that performs the claimed steps (*In re Ngai*, 367 F.3d 1336, 70 USPQ2d 1862 (Fed. Cir. 2004); *Ex parte Masham*, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987)).

10. In respect to claim **3**, Boes discloses a trading cycle at the beginning of every fiscal year (column 3, lines 62 – 67). Examiner notes that the subscription/redemption cycle of an investment fund can be at the beginning of a fiscal year.

11. In respect to claim **4**, these are just aspects of or clauses in the contractual agreement. Further, a contract represents at best printed matter, or non-functional descriptive material. Therefore, what is found in a contract will not differentiate a claim from the prior art that performs the claimed steps (*In re Ngai*, 367 F.3d 1336, 70 USPQ2d 1862 (Fed. Cir. 2004); *Ex parte Masham*, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987)).

12. In respect to claims **5**, **12**, **19**, and **22**, Boes discloses a book capital account that represents each tracking account's (e.g. fund's) total investment in the trading fund (e.g. portfolio) (column 3, lines 52 -61). Boes further discloses the respective share ownership of the tracking accounts (e.g. funds) in the portfolio being determined by its relative percentage of the total dollar amount of investments in the trading fund (e.g. portfolio). Thereafter, the tracking account's allocation percentage is adjusted through proper adjustments to the book capital account balances of the participating tracking accounts. The respective tracking account book capital accounts continually indicate the accurate relative ownership of the trading fund by each tracking accounts. Each tracking account's book capital account will be either increased or decreased by the amount of profit) or loss, respectively, allocated to the tracking account (column 3, lines 62 – 68 through column 4, lines 1 – 24).

13. In respect to claims **6, 13, 20, 23**, Boes discloses calculating the allocation percentage of the trading account, as per the above claim 5 analysis. Boes discloses calculating allocation ratio by summing the total assets of each fund in the portfolio, and then dividing each funds assets by the total portfolio assets to find that funds percentage ownership (column 3, lines 5 – 16).

Boes does not explicitly disclose multiplying the revised contribution by the maximum leverage ratio, summing the leveraged contribution and dividing the leverage contribution by the sum of leveraged contributions for the tracking accounts.

The claims are however obvious since the claimed invention is no more than simple substitution of one known element for another, i.e. one mathematical formula for calculating the allocation percentage for another, or mere application of known technique to piece of prior art ready for improvement-*Ex parte Smith*, 83 USPQ2d 1509 (Bd. Pat. App. & Int. 2007)

14. In respect to claims **7, 9, 10, 14, 16** and **17**, regarding the language of “when one of”, according to the MPEP “language that suggest or makes optional but does not require steps to be performed or does not limit a claim to a particular structure does not limit the scope of a claim or claim limitation” (MPEP 2106, II, C).

15. In respect to claims **8** and **15** Boes discloses, as described in the above analysis of claims 5,12, 19 and 22, calculating the allocation percentage of each tracking

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account (column 3, lines 52 -61; column 3, lines 62 – 68 through column 4, lines 1 – 24).

Boes further discloses calculating the allocation percentage intra-cycle (e.g. daily) (column 4, lines 6 – 8).

16. In respect to claims **11** and **18**, Boes discloses receiving a contribution for each tracking account (e.g. 100% of the funds assets) (column 2, lines 1 – 2) at the start of the trading cycle (column 3, line 62). The fund contributes 100% of its assets to the portfolio on the funds first day as a portfolio investor. Examiner notes that the first day as a portfolio investor can be the first day of the fiscal year, the trading cycle.

Boes further discloses determining the allocation percentage (e.g. allocation ratio) that each investor group (e.g. fund) has in the trading account (e.g. portfolio), (column 4, lines 44 – 61; column 3, lines 62 – 68 through column 4, lines 1 – 8) over a trading cycle (e.g. fiscal year) (column 3, lines 62 – 67; column 4, lines 59 - 61).

Conclusion

The prior art made of record and not relied upon considered pertinent to Applicant's disclosure:

- a. TheFreeDictionary.com (<http://legal-dictionary.thefreedictionary.com/partnership>) discloses that it is old and well known to have a contractual agreement to form a partnership.
- b. Walker et al. (U.S. Patent 5,794,207) discloses contractual agreements.
- c. InvestorWords.com (http://www.investorwords.com/3835/prime_broker.html) discloses that it is old and well known to have a prime broker be an external lender for a hedge fund.
- d. Conyers Dill & Pearman (<http://www.conyersdillandpearman.com/publications.cfm?Sub=5&Content=593>) discloses the Segregated Account Companies Act 2000, which teaches segregating accounts and limiting liability of each separate account, by either the Act or by contract.
- e. U.S. Securities and Exchange Commission (<http://www.sec.gov/investor/pubs/margin.htm>) discloses how purchasing on margin works.
- f. Kiron et al. (U.S. Patent 5,806, 048) discloses at least a "closed end fund of funds" that allows intra-day trading of funds, and investors being able to leverage investments.
- g. Sunday (U.S. Patent Application Publication U.S. 2001/0030395) discloses at least putting up additional money or liquidating a position to cover a margin call.
- h. Bennett (U.S. Patent 5,761,441) discloses at least a stock investment limited recourse borrowing contract.

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALAN MILLER whose telephone number is (571)270-5288. The examiner can normally be reached on Mon - Thur, 8:00am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CALVIN HEWITT can be reached on (571) 272-6709. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ALAN MILLER/
Examiner, Art Unit 4137***

/Calvin L Hewitt II/
Supervisory Patent Examiner, Art Unit 4137